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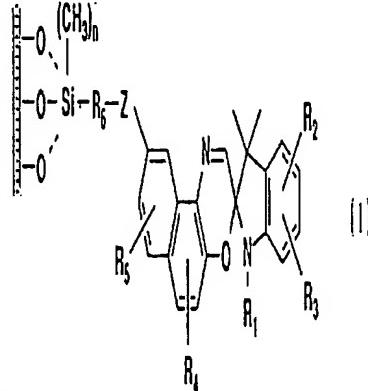
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(54) NOVEL PHOTOCHROMIC COMPOUNDS

(57) Abstract:

PURPOSE: Novel photochromic compounds obtained from the reaction of spirooxazine compounds with silicon compounds and preparation method thereof are provided which are excellent in heat resistance and solvent resistance.



CONSTITUTION: A photochromic compound of spirooxazine compound derivatives represented by the general formula (I) is prepared. In formula, R1 represents an alkyl having 1-10 carbons, alkenyl, alkoxy, substituted or nonsubstituted phenyl, phenylalkyl, R2-R5 are each H, halogen, cyano, nitro, an alkyl having 1-6 carbons, or alkoxy, R6 represents an alkyl having 1-6 carbons, Z represents a functional group coupled one substituent selected from hydroxyl, glycidoxyl, amine, and dichlorotrioxazinoxy with one substituent selected from vinyl, epoxy, methacryl, amino, and mercapto, and n is 1 or 2. The compound can be applicable to the screen print of fiber, leather or paper by ink.

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